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NASA/SP—1998–7501/SUPPL1

NASA THESAURUS SUPPLEMENT

A three-part cumulative update of the
1998 edition of the *NASA Thesaurus*

July 1998

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A three-part cumulative update of the
1998 edition of the *NASA Thesaurus*

**National Aeronautics and
Space Administration**

July 1998

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Introduction

This Supplement is a cumulative update to the 1998 edition of the *NASA Thesaurus* (NASA/SP—1998–7501). The update includes all new terms and associated hierarchies added between the cut-off for the 1998 edition (December 1997) through June 30, 1998. Parts 1 and 2 of this *Supplement* correspond to Volumes 1 and 2 of the printed edition of the *NASA Thesaurus*. Supplements are normally published every six months.

Part 1 (*Hierarchical Listing*) contains the full hierarchical structure for each new term along with all new cross references. Term definitions, previously presented as Part 3 of past supplements, have been integrated into the Part 1 listing.

Display elements comprising the hierarchical listing are as follows:

Display Element	**Notation**
Generic Structure	GS
Related Term	RT
Use	USE
Use For	UF
Scope Note	SN
Definition	DEF
Array Terms	∞

For a fuller explanation, see the Introduction (pages viii–xi) in the printed version of the 1998 *NASA Thesaurus*, Volume 1.

Part 2 (*Rotated Term Display*) is a ready reference tool which provides additional 'access points' to the thesaurus terminology. It contains the postable terms and nonpostable cross references found in the Hierarchical Listing (Part 1) arranged in a KWIC (key-word-in-context) index.

Part 3 (*Changes*) is a listing of deletions or changes to postable terms or USE references made since the 1998 edition of the *NASA Thesaurus*. To control the size of the Supplement, only significant changes in term hierarchies and related term lists are presented.

NOTE: Other resources and products related to the NASA Thesaurus can be found at the following URL: **http://www.sti.nasa.gov/nasa-thesaurus.html**.

In addition to the above mentioned resources, a thesaurus listserv has been set up for submitting candidate terms and discussion of related lexicographical issues. A listing of candidate and accepted new terms is posted monthly. To subscribe to this listserv, send an e–mail message to **listserv@sti.nasa.gov**. Leave the subject line blank and in the message section, type **SUBSCRIBE THESAURUS–L <Your name>**. (Should you wish to cancel your subscription, send a message to the same address with UNSUBSCRIBE in the message section.)

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NASA THESAURUS SUPPLEMENT

PART 1

HIERARCHICAL LISITNG

A

Alpha Magnetic Spectrometer
(added June 1998)
UF *AMS (spectrometer)*
GS measuring instruments
spectrometers
Alpha Magnetic Spectrometer
RT antimatter
Cerenkov counters
cosmic rays
dark matter
International Space Station
interstellar matter
magnetic spectroscopy
space station payloads
spaceborne astronomy

AMS (spectrometer)
USE **Alpha Magnetic Spectrometer**

antenna gain
(added June 1998)
GS amplification
antenna gain
RT antennas
automatic gain control
directional antennas
effectiveness
high gain
signal reception

antiphase boundaries
(added March 1998)
UF *antiphase domains*
APB (materials)
GS boundaries
antiphase boundaries
RT binary alloys
crystal dislocations
crystal lattices
crystal structure
grain boundaries
interfacial energy
intermetallics
microstructure
order-disorder transformations
solid solutions
solid-solid interfaces
superlattices
ternary alloys

antiphase domains
USE **antiphase boundaries**

APB (materials)
USE **antiphase boundaries**

B

bohrium
(added May 1998)
GS chemical elements
bohrium
RT hassium
seaborgium

C

clamped structures
(added February 1998)
RT beams (supports)
clamps
composite structures
joints (junctions)
laminates
plates (structural members)
shells (structural forms)
structural members
structural vibration
co structures

corrugated waveguides
(added February 1998)
GS waveguides
corrugated waveguides
RT gratings (spectra)
optical waveguides
waveguide antennas

cycloaddition
(added June 1998)
DEF Pericyclic chemical reaction in which unsaturated molecules combine to form a cyclic compound under the influence of heat or light.
GS chemical reactions
cycloaddition
Diels-Alder reactions
RT cyclic compounds
photochemical reactions
polymerization
synthesis (chemistry)

D

deformable mirrors
(added May 1998)
GS mirrors
deformable mirrors
RT adaptive optics
light modulation
phase modulation
segmented mirrors

dielectric waveguides
(added February 1998)
GS waveguides
dielectric waveguides
RT dielectrics
microwave transmission
optical waveguides
waveguide antennas
waveguide filters

dubnium
(added May 1998)
GS chemical elements
dubnium
RT rutherfordium
seaborgium

E

EAM (physical chemistry)
USE **embedded atom method**

embedded atom method
(added February 1998)
DEF A semiempirical calculation method developed by Daw and Baskes for determining the energetics of atoms in a bulk environment. The original form of the method was based on density functional theory and was intended primarily for tight-packed transition metals. More recent modifications have extended the applicability of the method to a large number of elements in the periodic table.
UF *EAM (physical chemistry)*
MEAM (physical chemistry)
modified embedded atom method
RT alloys
crystal defects
grain boundaries
interatomic forces
metals
co methodology
molecular dynamics
potential energy

Euler Bernoulli beam theory
USE **Euler-Bernoulli beams**

Euler-Bernoulli beams
(added April 1998)
UF *Euler Bernoulli beam theory*
GS structural members
beams (supports)
Euler-Bernoulli beams
RT axial strain
bending
bending vibration
dynamic structural analysis
elastic properties
mathematical models
partial differential equations
structural analysis
Timoshenko beams

evanescent waves
(added March 1998)
GS surface waves
evanescent waves
RT acoustic impedance
evanescence
fiber optics
internal waves
plane waves
propagation modes
reflected waves
wave propagation
co waves

F

ferroelastic materials
(added June 1998)
GS **ferroelastic materials**
shape memory alloys
nitinol alloys
RT ceramics
ferroelasticity
ferroelectric materials
UF materials
smart materials

ferroelasticity
(added June 1998)
GS mechanical properties
elastic properties
ferroelasticity
RT crystal structure
domain wall
ferroelastic materials
ferroelectricity
phase transformations
shape memory alloys
smart materials

free-space optical communication
(added June 1998)
GS telecommunication
communication
optical communication
free-space optical communication
RT high power lasers
laser beams
satellite communication
space communication

free-space optical interconnects
(added June 1998)
UF *FSOI (integrated optics)*
GS optical interconnects
free-space optical interconnects
RT integrated optics
interprocessor communication
optical computers
optical switching
optoelectronic devices
photonics

FSOI (integrated optics)
USE **free-space optical interconnects**

fullerides
(added February 1998)
GS carbon compounds
fullerides
RT alkali metal compounds
UF chemical compounds
doped crystals
fullerenes
superconductors (materials)

G

Gabor filters
(added February 1998)
GS image filters
Gabor filters
RT computer vision
UF filters
Gabor transformation
image analysis
image processing
low pass filters
neural nets
spatial filtering
textures

Gabor transformation
(added February 1998)
GS transformations (mathematics)
Gabor transformation
RT Fourier transformation
Gabor filters
holography
image processing
signal analysis
wavelet analysis

Godunov method
(added February 1998)
DEF Non-oscillatory finite-volume scheme that incorporates the exact or approximate solution to the Riemann initial-value problem, or a generalization of it.
GS analysis (mathematics)
numerical analysis
finite volume method
Godunov method
procedures
finite volume method
Godunov method
RT approximation
Cauchy problem
Cauchy-Riemann equations
computational fluid dynamics
Euler equations of motion
finite difference theory
shock wave interaction
supersonic flow

H

H-2 control
(added February 1998)
GS automatic control
optimal control
H-2 control
optimization
optimal control
H-2 control
RT control systems design
control theory
controllers
feedback control
H-infinity control
linear quadratic Gaussian control

hassium
(added May 1998)
GS chemical elements
hassium
RT bohrium
meitnerium

head up tilt
(added March 1998)
DEF Body posture while lying on a tilt table with the head higher than the rest of the body.
UF *HUT (physiology)*
GS posture
head up tilt
RT aerospace medicine
bed rest
bioastronautics
cardiovascular system
gravitational physiology
head down tilt
hemodynamic responses
lower body negative pressure
orthostatic tolerance
physiological responses
supine position
weightlessness simulation

HUT (physiology)
USE **head up tilt**

hypothetical planets
(added June 1998)
UF *Phaethon (hypothetical planet)*
planet X
transplutonic planets
GS celestial bodies
planets
hypothetical planets
RT comets
extrasolar planets
planetary orbits

I

intelligent materials
USE **smart materials**

ion optics
(added June 1998)
RT beam waveguides
beamforming
electron optics
ion beams
ion engines
ion propulsion
mass spectrometers
UF optics

K

kink bands
(added March 1998)
RT buckling
compression loads
edge dislocations
failure modes
fiber composites
microstructure
plastic deformation
reinforcing fibers
single crystals

kinking
(added April 1998)
RT bending
buckling
compression loads
cracking (fracturing)
deformation
displacement
failure modes
fiber composites
folding
heaving
twisting
wrinkling

L

Lunar Prospector
(added February 1998)
GS artificial satellites
lunar satellites
Lunar Prospector
lunar spacecraft
lunar satellites
Lunar Prospector
RT lunar composition

lunar exploration
lunar programs
lunar resources
lunar surface

M

Martian meteorites
USE **SNC meteorites**

MEAM (physical chemistry)
USE **embedded atom method**

meitnerium
(added May 1998)
GS chemical elements
meitnerium
RT hassium

Mindlin plate theory
USE **Mindlin plates**

Mindlin plates
(added April 1998)
UF *Mindlin plate theory*
Reissner-Mindlin plates
GS structural members
plates (structural members)
Mindlin plates
RT dynamic structural analysis
finite element method
free vibration
plate theory
Reissner theory
shear strain
structural analysis
structural vibration
thick plates

mischmetal
(added June 1998)
DEF An alloy consisting of a natural mixture of rare-earth metals used in electrode materials and hydrogen-storage alloys, as a general alloy addition, and in the production of some aluminum alloys and steels.
GS alloys
rare earth alloys
mischmetal
RT alloying
aluminum alloys
cathodic coatings
cerium
desorption
electrode materials
intermetallics
steels

modified embedded atom method
USE **embedded atom method**

O

optical interconnects
(added June 1998)
GS **optical interconnects**
free-space optical interconnects
RT connectors
electric connectors
integrated optics
optical computers
optical switching
optoelectronic devices
photonics

P

Phaethon (hypothetical planet)
USE **hypothetical planets**

planet X
USE **hypothetical planets**

polyvinylidene
USE **vinylidene**

R

Reissner-Mindlin plates
USE **Mindlin plates**

S

scarf joints
(added March 1998)
DEF A joint in which the overlapping parts are tapered to form a continuous length with no increase in dimension at the joint.
GS joints (junctions)
scarf joints
RT bolted joints
bonded joints
lap joints
metal joints
scarfing

screech tones
(added March 1998)
DEF Discrete acoustic tones produced by imperfectly expanded supersonic jets. The phenomenon is a result of a resonant feedback condition involving downstream traveling shear-layer disturbances and upstream traveling acoustic waves.
GS elastic waves
sound waves
noise (sound)
aerodynamic noise
screech tones
frequencies
acoustic frequencies
screech tones
RT aeroacoustics
feedback
jet aircraft noise
jet mixing flow
nozzle flow
shear layers
supersonic jet flow
supersonic nozzles

seaborgium
(added May 1998)
GS chemical elements
seaborgium
RT bohrium
dubnium

Shergotty Nakhla Chassigny meteorites
USE **SNC meteorites**

Shuttle Superlightweight Tank
USE **external tanks**
propellant tanks

SLWT (propellant tank)
USE **external tanks**
propellant tanks

smart materials
(added March 1998)
DEF Engineered materials capable of responding to their environment to a significant degree by virtue of intrinsic properties and/or built-in sensor/actuator elements. Applications of these materials include vibration suppression/isolation, precision positioning, damage detection, and tunable devices.
UF *intelligent materials*
RT actuators
composite materials
electrorheological fluids
electrostriction
ferroelastic materials
ferroelasticity
ferroelectric materials
ferromagnetic materials
magnetic materials
piezoelectric ceramics
sensors
shape memory alloys
smart structures
vibration damping

SNC meteorites
(added March 1998)
DEF Meteorites with petrologic characteristics, isotopic signatures, trapped gas compositions, and relatively young crystallization ages (less than 1.3 billion years), which together point to a Martian origin. The name of these meteorites is derived from first three known examples--Shergotty, Nakhla, and Chassigny.
UF *Martian meteorites*
Shergotty Nakhla Chassigny meteorites
GS celestial bodies
meteorites
stony meteorites
achondrites
SNC meteorites
RT chassignites
Mars (planet)
Mars surface
nakhlites
shergottites

sonochemistry
USE **ultrasonic processing**

T

TRACE satellite
USE **Transition Region and Coronal Explorer**

Transition Region and Coronal Explorer
(added May 1998)
DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.
UF *TRACE satellite*
GS artificial satellites
scientific satellites
Explorer satellites
Transition Region and Coronal Explorer
RT chromosphere
SOHO Mission
solar atmosphere
solar corona
solar magnetic field
solar observatories

solar physics
solar transition region

transplutonic planets
USE **hypothetical planets**

TRMM satellite
(added May 1998)
DEF Satellite supporting the joint US-Japanese Tropical Rainfall Measuring Mission (TRMM) to explore tropical rainfall and its effects on the Earth energy budget, general circulation and climate. The TRMM satellite represents the first dual deployment of a precipitation radar and passive microwave radiometer on an Earth-viewing satellite.
UF *Tropical Rainfall Measuring Mission sat*
GS artificial satellites
meteorological satellites
TRMM satellite
scientific satellites
TRMM satellite
RT atmospheric circulation
Earth radiation budget
equatorial atmosphere
rain
tropical meteorology

Tropical Rainfall Measuring Mission sat
USE **TRMM satellite**

U

ultrasonic processing
(added June 1998)
DEF The use of ultrasonic radiation to synthesize a compound or material, or alter the structure, properties, or form of a material.
UF *sonochemistry*
ultrasonic treatment
RT processing
ultrasonic cleaning
ultrasonics

ultrasonic treatment
USE **ultrasonic processing**

W

water sampling
(added March 1998)
DEF The process of obtaining a representative sample of water from any natural or artificial environment.
GS sampling
water sampling
RT environmental monitoring
ground water
pollution monitoring
sea water
surface water
water
water pollution
water quality

wave rotors
(added March 1998)
DEF Rotor devices that use gasdynamic waves to transfer energy rather than the motion of solid surfaces. Typically, they consist of a series of passages arranged on a drum which rotates about an axis. Through rotation, the ends of the passages are periodically exposed to various circumferentially arranged ports which initiate the traveling expansion or compression waves within the passages. The particular circumferential location of the ports determines the thermodynamic cycle of the working fluid.
GS rotating bodies
rotors
wave rotors
RT compression waves
energy transfer
engine parts
gas dynamics
gas generators
gas turbine engines
topping cycle engines
turbomachinery
turboshafts
wave generation

NASA THESAURUS SUPPLEMENT

PART 2
ROTATED TERM DISPLAY

A

H- 2 control
Alpha Magnetic Spectrometer
AMS (spectrometer)
use Alpha Magnetic Spectrometer
antenna gain
antiphase boundaries
antiphase domains
use antiphase boundaries
APB (materials)
use antiphase boundaries
embedded **atom** method
modified embedded **atom** method
use embedded atom method

B

kink **bands**
Euler-Bernoulli **beam** theory
use Euler-Bernoulli beams
Euler-Bernoulli **beams**
Euler- **Bernoulli** beam theory
use Euler-Bernoulli beams
Euler- **Bernoulli** beams
bohrium
antiphase **boundaries**

C

Shergotty Nakhla **Chassigny** meteorites
use SNC meteorites
EAM (physical **chemistry)**
use embedded atom method
MEAM (physical **chemistry)**
use embedded atom method
clamped structures
free-space optical **communication**
H-2 **control**
Transition Region and **Coronal** Explorer
corrugated waveguides
cycloaddition

D

deformable mirrors
dielectric waveguides
antiphase **domains**
use antiphase boundaries
dubnium

E

EAM (physical chemistry)
use embedded atom method
embedded atom method
modified **embedded** atom method
use embedded atom method
Euler-Bernoulli beam theory
use Euler-Bernoulli beams
Euler-Bernoulli beams
evanescent waves
Transition Region and Coronal **Explorer**

F

ferroelastic materials
ferroelasticity
Gabor **filters**
free-space optical communication
free-space optical interconnects
FSOI (integrated optics)
use free-space optical interconnects
fullerides

G

Gabor filters
Gabor transformation
antenna **gain**
Godunov method

H

H-2 control
hassium
head up tilt
HUT (physiology)
use head up tilt
Phaethon **(hypothetical** planet)
use hypothetical planets
hypothetical planets

I

FSOI **(integrated** optics)
use free-space optical interconnects
intelligent materials
use smart materials
free-space optical **interconnects**
optical **interconnects**
ion optics

J

scarf **joints**

K

kink bands
kinking

L

Lunar Prospector

M

Alpha **Magnetic** Spectrometer
Martian meteorites
use SNC meteorites
APB **(materials)**
use antiphase boundaries
ferroelastic **materials**
intelligent **materials**
use smart materials
smart **materials**
MEAM (physical chemistry)
use embedded atom method
Tropical Rainfall **Measuring** Mission sat
use TRMM satellite
meitnerium
Martian **meteorites**
use SNC meteorites
Shergotty Nakhla Chassigny **meteorites**
use SNC meteorites
SNC **meteorites**
embedded atom **method**
Godunov **method**
modified embedded atom **method**
use embedded atom method
Mindlin plate theory
use Mindlin plates
Mindlin plates
Reissner- **Mindlin** plates
use Mindlin plates
deformable **mirrors**
mischmetal
Tropical Rainfall Measuring **Mission** sat
use TRMM satellite
modified embedded atom method
use embedded atom method

N

Shergotty **Nakhla** Chassigny meteorites
use SNC meteorites

O

free-space **optical** communication
optical interconnects
free-space **optical** interconnects
FSOI (integrated **optics)**
use free-space optical interconnects
ion **optics**

P

Phaethon (hypothetical planet)
use hypothetical planets
EAM **(physical** chemistry)
use embedded atom method
MEAM **(physical** chemistry)
use embedded atom method
HUT **(physiology)**
use head up tilt
Phaethon (hypothetical **planet)**
use hypothetical planets
planet X
use hypothetical planets
hypothetical **planets**
transplutonic **planets**
use hypothetical planets
Mindlin **plate** theory
use Mindlin plates
Mindlin **plates**
Reissner-Mindlin **plates**
use Mindlin plates
polyvinylidene
use vinylidene
ultrasonic **processing**
SLWT **(propellant** tank)
use external tanks
propellant tanks
Lunar **Prospector**

R

Tropical **Rainfall** Measuring Mission sat
use TRMM satellite
Transition **Region** and Coronal Explorer
Reissner-Mindlin plates
use Mindlin plates
wave **rotors**

S

outer **sampling**
Tropical Rainfall Measuring Mission **sat**
use TRMM satellite
TRACE **satellite**
use Transition Region and Coronal Explorer
TRMM **satellite**
scarf joints
screech tones
seaborgium
Shergotty Nakhla Chassigny meteorites
use SNC meteorites
Shuttle Superlightweight Tank
use external tanks
propellant tanks
SLWT (propellant tank)
use external tanks
propellant tanks
smart materials
SNC meteorites
sonochemistry
use ultrasonic processing
free- **space** optical communication
free- **space** optical interconnects
Alpha Magnetic **Spectrometer**
AMS **(spectrometer)**
use Alpha Magnetic Spectrometer
damaged **structures**
Shuttle **Superlightweight** Tank
use external tanks
propellant tanks

T

Shuttle Superlightweight **Tank**
use external tanks
propellant tanks
SLWT (propellant **tank)**
use external tanks
propellant tanks
Euler-Bernoulli beam **theory**
use Euler-Bernoulli beams

Mindlin plate **theory**
use Mindlin plates
head up **tilt**
screech **tones**
TRACE satellite
use Transition Region and Corona Explorer
Gabor **transformation**
Transition Region and Coronal Explorer
transplutonic planets
use hypothetical planets
ultrasonic **treatment**
use ultrasonic processing
TRMM satellite
Tropical Rainfall Measuring Mission
use TRMM satellite

U

ultrasonic processing
ultrasonic treatment
use ultrasonic processing
hand **up** tilt

W

water sampling
wave rotors
corrugated **waveguides**
dielectric **waveguides**
evanescent **waves**

X

planet **X**
use hypothetical planets

NASA THESAURUS SUPPLEMENT

PART 3
CHANGES

No changes or deletions were made during this period.

Report Documentation Page

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
NASA/SP—1998-7501/SUPPL1		

4. Title and Subtitle	5. Report Date
NASA Thesaurus Supplement	July 1998
	6. Performing Organization Code: AO

7. Author(s)	8. Performing Organization Report No.
	10. Work Unit No.

9. Performing Organization Name and Address	11. Contract or Grant No.
NASA Scientific and Technical Information Program Office	

12. Sponsoring Agency Name and Address	13. Type of Report and Period Covered
National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681	Special Publication
	14. Sponsoring Agency Code

15. Supplementary Notes

1998 Edition

16. Abstract

The three-part cumulative *NASA Thesaurus Supplement* to the 1998 edition of the NASA Thesaurus includes Part 1 – Hierarchical Listing, Part 2 – Rotated Term Display, and Part 3 – Changes. The semiannual supplement gives complete hierarchies for new terms. Definitions are included in Part 1; uppercase/lowercase forms are provided in both Parts 1 and 2.

17. Key Words (Suggested by Author(s))	18. Distribution Statement
Dictionaries Indexes (Documentation) Information Retrieval Terminology Thesauri	Unclassified – Unlimited Subject Category – 82

19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of Pages	22. Price
Unclassified	Unclassified	20	A03

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